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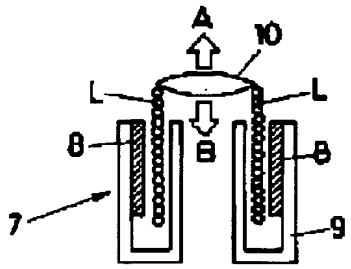
TITLE : DETECTION OF WORKING DISTANCE OF ACTUATOR STORAGE FOR FOCUS ADJUSTMENT OF MAGNETO-OPTICAL STORAGE DEVICE AND DETECTION OF SURFACE-WOBBLING QUANTITY OF INFORMATION STORAGE MEDIUM



ABSTRACT : PURPOSE: To exactly detect the working distance of an actuator by calculating the working distance in accordance with the correlation between the driving current and moving distance of the actuator.

CONSTITUTION: The actuator 7 is moved in a focus direction one point on the information storage medium or the disk having the same reflectivity as the reflectivity of the medium while the medium or disk is stopped. The actuator 7 is positioned within the focus adjustable range of a focus error signal and is moved so as to align the focus successively to plural points. The correlation of the change in the driving current of the actuator 7 and the change in the focus error signal are obtd. from the moving distance of the actuator 7 and is stored into a memory. The working distance when the actuator 7 is moved to focus the storage surface of the medium is thereafter calculated in accordance with the correlation stored into the memory. The working distance is then determined from the driving current of the actuator 7. The working distance is thus exactly determined.